

How to Deploy Ekran System on Azure Cloud from Azure Marketplace

Prerequisites

To deploy Ekran System from Azure Marketplace, you first need the following:

- An Azure subscription.
- A Microsoft user account with permissions to create new resources using the subscription.

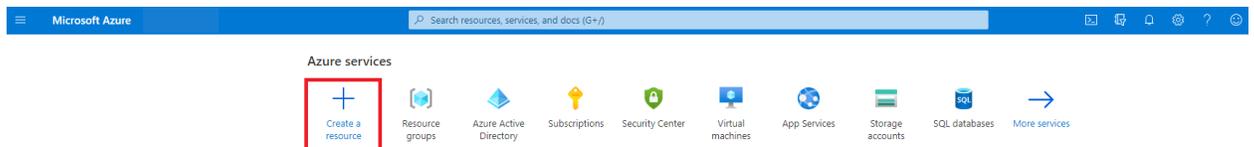
If you want to use an existing SQL server to store the application data:

- The SQL server must be accessible over the Internet.
- You will need to provide:
 - The connection data for the SQL server.
 - The credentials of a user of the SQL server with system administrator permissions.

You can view the database requirements in the [Ekran System Deployment Guide](#).

The Deployment Process

1. Login to the Azure Portal: <https://portal.azure.com/>
2. On the **Home** page, click the **Create a resource** button.



3. Enter "Ekran System" in the **Search the Marketplace** field.

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4. Click the **Create** button to open the installation wizard.
5. On the **Basics** tab of the installation wizard, select the Azure subscription you want to use, then create a new resource group and select the region where you want to deploy the application, and click **Next**.

1 Basics 2 Database Storage Configuration 3 Application Server Configuration 4 Network Configuration 5 Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Resource group * ⓘ

[Create new](#)

Instance details

Region * ⓘ

NOTE: Existing resource groups cannot be used to deploy Ekran System. To create a new group, click on the **Create new** button under the **Resource group** field, and then in the pop-up window that opens, enter a name for the resource group. This name must be unique for your subscription.

Create new

A resource group is a container that holds related resources for an Azure solution.

Name *

OK Cancel

6. On the **Database Storage Configuration** tab, you can choose whether to install a new SQL server, or use an existing SQL server if you have one.

Basics **2 Database Storage Configuration** 3 Application Server Configuration

Install the SQL Server Yes
 No, I have one to use

- 6.1. If you choose to use an existing SQL server, you need to provide the connection data and the credentials for it.

SQL Server credentials

Since you have chosen to use an existing SQL Server, please provide its connection data. Note that this Server must be publicly accessible, so that the Ekran System Application Server can connect to it over the Internet.

SQL Server type * ⓘ

Server name * ⓘ

Port *

SQL user name *

Password *

NOTE: The server name for an existing SQL server must be fully qualified (e.g. myserver.example.com).

6.2. If you choose to install a new SQL server, you have a choice of 3 types of servers: MS SQL, PostgreSQL, or Azure SQL Database server.

SQL Server type * ⓘ

MS SQL virtual machine ^

MS SQL virtual machine

PostgreSQL virtual machine

Azure SQL Database Server

To host the MS SQL or PostgreSQL server, a virtual machine will be deployed in the resource group, and you will be asked to define several parameters.

Virtual machine settings

Virtual machine name * ⓘ

User name * ⓘ

User password *

Confirm password *

Select the size of the virtual machine depending on the planned number of Clients to be monitored simultaneously. ↗

Virtual machine size * ⓘ

1x Standard D2s v3

2 vcpus, 8 GB memory

[Change size](#)

OS disk type ⓘ

To change the virtual machine size, you can use the **Change size** button.

Select a VM size

Search by VM size... Display cost: **Monthly** vCPUs: **All** RAM (GiB): **All** + Add filter

Showing 406 VM sizes. | Subscription: Azure subscription 1 | Region: East US | Current size: Standard_D2s_v3 | [Learn more about VM sizes](#) | Group by series

VM Size ↑↓	Family ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Temp storage (GiB)
Most used by Azure users ↗						
The most used sizes by users in Azure						
D51_v2 ↗	General purpose	1	3.5	4	3200	7
D2s_v3 ↗	General purpose	2	8	4	3200	16
B2s ↗	General purpose	2	4	4	1280	8
B1s ↗	General purpose	1	1	2	320	4

Select the virtual machine’s size depending on the number of Clients to be monitored simultaneously. Information about the hardware requirements can be found in the document entitled [Ekran System Requirements and Performance Numbers](#).

If you chose to install the SQL server, you will be asked to define some parameters specific to the selected SQL server type.

6.2.1. For MS SQL:

MS SQL settings

Data disk size ⓘ	<input type="text" value="1024 GiB"/>
Log disk size ⓘ	<input type="text" value="1024 GiB"/>
MSSQL port *	<input type="text" value="1433"/>

You can select the size of the data disk and of the log disk that will be used by the server. You can also enter a custom port to which the server will accept connections (recommended).

6.2.2. For PostgreSQL:

PostgreSQL settings

Data disk type ⓘ	<input type="text" value="Standard SSD"/>
Data disk size ⓘ	<input type="text" value="1024 GiB"/>
PostgreSQL port *	<input type="text" value="5432"/>

You can select the type and the size of the data disk that will be used by the server. You can also enter a custom port to which the server will accept connections (recommended).

6.2.3. For Azure SQL Database server.

Azure SQL settings

Server name * ⓘ	<input type="text"/>
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You need to enter a name for the server. This name along with the **database.windows.net** domain will form the fully qualified domain name of the SQL server. The SQL server will be accessed over the Internet by using this fully qualified domain name, so the name must therefore be globally unique.

The final configuration settings that you need to define for the new SQL server are specified in the SQL server account.

SQL Server Administrator account

User name *	<input type="text" value="EkranAdmin"/>
User password *	<input type="password"/>
Confirm password *	<input type="password"/>

NOTE: For PostgreSQL, only the default user name “postgres” can currently be used.

When all settings on the **Database Storage Configuration** tab have been defined, click **Next**.

7. On the **Application Server Configuration** tab, you can choose whether to install the Application Server along with the SQL server.

Basics Database Storage Configuration **Application Server Configuration**

Use the SQL Server virtual machine to install the Application Server on

No, install the Application Server on a standalone VM
 Yes, install it along with the SQL Server

NOTE: This option is available only if you chose to install the SQL server in the previous step and the type selected was MS SQL or PostgreSQL.

- 7.1. If you choose to install the Application Server on a standalone virtual machine (recommended), you will be asked to define some parameters for the virtual machine.

Virtual machine settings

Virtual machine name * ⓘ	<input type="text" value="EkranServer"/>
User name * ⓘ	<input type="text" value="EkranAdmin"/>
User password *	<input type="password"/>
Confirm password *	<input type="password"/>



Select the size of the virtual machine depending on the planned number of Clients to be monitored simultaneously.



Virtual machine size * ⓘ	1x Standard D2s v3 2 vcpus, 8 GB memory Change size
OS disk type ⓘ	<input type="text" value="Standard SSD"/>
Public IP address ⓘ	<input type="text" value="(new) EkranSystem-PublicIP"/> Create new
Domain name label * ⓘ	<input type="text"/>

.eastus.cloudapp.azure.com

RDP access (port 3389)

Select the virtual machine's size depending on the number of Clients to be monitored simultaneously. Information about the hardware requirements can be found in the document entitled [Ekran System Requirements and Performance Numbers](#).

NOTE: Do not select the **None** option for the **Public IP address** if you intend to access the virtual machine over the Internet (e.g. to be able to monitor Ekran System Clients on-premises, the Application Server must be accessible over the Internet).

In the **Domain name label** field, enter a name label that, along with the domain name displayed under this field (e.g. ".eastus.cloudapp.azure.com"), will form a fully qualified domain name that must be globally unique.

- 7.2. If you choose to install the Application Server along with the SQL server, you will have an option to configure the public access parameters for the virtual machine.

SQL Server virtual machine public access

Public IP address ⓘ

Domain name label * ⓘ

.eastus.cloudapp.azure.com

RDP access (port 3389)

NOTE: Do not select the **None** option for the **Public IP address** if you intend to access the virtual machine over the Internet (e.g. to be able to monitor Ekran System Clients on-premises, the Application Server must be accessible over the Internet).

In the **Domain name label** field, enter a name label that, along with the domain name displayed under this field (e.g. “.eastus.cloudapp.azure.com”), will form a fully qualified domain name that must be globally unique.

The final configuration settings that you need to define for the Application Server are the Management Tool’s default user credentials and URL.

Management Tool settings

Default user password *

Confirm password *

URL * ⓘ

The default user name is “**admin**”. You will use these credentials to log in to the Management Tool.

NOTE: Please make sure that you do not forget these user credentials, so as to be able to access the Management Tool later.

When all settings on the **Application Server Configuration** tab have been defined, click **Next**.

8. On the **Network Configuration** tab, you can make changes to the virtual network to be created in the resource group, or use the default values.

✓ Basics ✓ Database Storage Configuration ✓ Application Server Configuration **4** Network Configuration

Configure virtual networks

Virtual network * ⓘ

Subnet *

Firewall rules (allow)

Ekran System Client connections (port 9447)

Web clients connections (browsers) over HTTPS (port 443)

You also have the option to allow connections to the Application Server over the Internet via certain ports:

- Allow port 9447, if you want to monitor Clients on-premises.
- Allow port 443, if you want to access the Management Tool from an on-premises environment.

NOTE: This option will only be available if the **Public IP address** option in the previous step was not set to **"None"**.

NOTE: To monitor Clients in the cloud in other resource groups or regions, you can choose between accessing the Application Server over the Internet or configuring a VNet-to-VNet VPN gateway. For more details see: [Microsoft Docs](#)

When all settings on the **Database Storage Configuration** tab have been defined, click **Next**.

- On the **Review + create** tab, you can check all the settings you have defined, and then, after carefully reading the Terms of Use, start deployment of Ekran System by clicking the **Create** button.

The deployment process will take between 30-50 minutes depending on the settings chosen. You can watch the progress on the Azure Portal on the **Resource group** page, on the **Deployments** tab.

Deployment name	Status	Last modified	Duration	Related events
<input type="checkbox"/> EkranSQLServerApps-Deployment	✔ Succeeded	2/4/2021, 8:13:48 PM	7 minutes 55 seconds	Related events
<input type="checkbox"/> EkranServerApps-Deployment	▶ Deploying	2/4/2021, 8:14:41 PM	15 minutes 47 seconds	Related events
<input type="checkbox"/> EkranServer-Deployment	✔ Succeeded	2/4/2021, 8:00:35 PM	32 seconds	Related events
<input type="checkbox"/> EkranSQLServer-Deployment	✔ Succeeded	2/4/2021, 8:05:39 PM	5 minutes 36 seconds	Related events
<input type="checkbox"/> Network-Deployment	✔ Succeeded	2/4/2021, 7:59:58 PM	10 seconds	Related events
<input type="checkbox"/> pid-ab663af9-4c0a-481f-81b5-0ebc9300b29c	✔ Succeeded	2/4/2021, 7:59:48 PM	1 second	Related events
<input type="checkbox"/> mainTemplate	▶ Deploying	2/4/2021, 8:16:09 PM	16 minutes 37 seconds	Related events

After deployment is complete, you can see the resources created on the **Resource group** page, on the **Overview** tab.

Name	Type
<input type="checkbox"/> EkranServer	Virtual machine
<input type="checkbox"/> EkranServer-NetworkInterface	Network interface
<input type="checkbox"/> EkranServer-NetworkSecurityGroup	Network security group
<input type="checkbox"/> EkranServer-OsDisk	Disk
<input type="checkbox"/> EkranSQLServer	Virtual machine
<input type="checkbox"/> EkranSQLServer-DataDisk1	Disk
<input type="checkbox"/> EkranSQLServer-NetworkInterface	Network interface
<input type="checkbox"/> EkranSQLServer-NetworkSecurityGroup	Network security group
<input type="checkbox"/> EkranSQLServer-OsDisk	Disk
<input type="checkbox"/> EkranSystemApplication-PublicIP	Public IP address
<input type="checkbox"/> EkranVNet	Virtual network

You have now finished deploying Ekran System and can start using it.

Accessing the Application by Using the Management Tool

To start using Ekran System, you need to access it using the Management Tool by doing the following:

1. In the list of deployed resources shown (see the screenshot above), click on the virtual machine (Note: the “**EkranServer**” is the default name) that you chose to install the Ekran System Application Server on during deployment.
2. On the **Overview** tab, in the **Essentials** section, copy the **DNS name** of the virtual machine. This name, along with the URL configured during deployment (Note: “**ekransystem**” is the default URL), can be used to access the Management Tool. For example:

<https://mydomainnamelabel.eastus.cloudapp.azure.com/ekransystem/>

3. Open your browser and paste this full URL of the Management Tool into the address bar.

NOTE: If you chose to open port 443 while configuring the deployment, you will be able to access the Management Tool from your on-premises environment. Otherwise, you can only access the Management Tool from the virtual machine where the Ekran System Application Server is installed.